

Title (en)  
DEVICE-TO-DEVICE WIRELESS COMMUNICATION METHOD AND USER EQUIPMENT

Title (de)  
VERFAHREN ZUR DRAHTLOSEN VORRICHTUNG-ZU-VORRICHTUNG-KOMMUNIKATION UND BENUTZERGERÄT

Title (fr)  
PROCÉDÉ DE COMMUNICATION SANS FIL ENTRE DISPOSITIFS ET ÉQUIPEMENT D'UTILISATEUR

Publication  
**EP 3764692 A1 20210113 (EN)**

Application  
**EP 20188652 A 20140926**

Priority  
• EP 20188652 A 20140926  
• EP 14902505 A 20140926  
• CN 2014087563 W 20140926

Abstract (en)  
Provided are D2D wireless communication methods and UEs therefor. In one embodiment, the D2D wireless communication method performed by a UE comprises continuing D2D transmission by using a resource from a resource pool allocated for mode 2 operation when switching from mode 1 operation to mode 2 operation. In another embodiment, the D2D wireless communication method performed by a UE comprises performing D2D transmission by using a resource from a resource pool allocated for mode 2 operation, wherein the resource pool is indicated by a dedicated RRC signaling transmitted by an eNB, a SIB transmitted by an eNB, a PD2DSCH transmitted by other UE(s), and/or pre-configuration, and the dedicated RRC signaling, the SIB, the PD2DSCH and the pre-configuration are in descending order in priority when determining the resource pool.

IPC 8 full level  
**H04W 36/00** (2009.01); **H04W 72/02** (2009.01); **H04W 76/23** (2018.01)

CPC (source: EP US)  
**H04W 72/02** (2013.01 - EP US); **H04W 72/56** (2023.01 - US); **H04W 76/23** (2018.02 - EP US); **H04W 36/033** (2023.05 - EP US)

Citation (search report)  
• [X] J SCHLIENZ ET AL: "Device to Device Communication in LTE Whitepaper D2D Communication - 1MA264\_0e", 1 June 2014 (2014-06-01), Internet, pages 1 - 36, XP055750203, Retrieved from the Internet <URL:https://cdn.rohde-schwarz.com/pws/dl\_downloads/dl\_application/application\_notes/1ma264/1MA264\_0e\_D2DComm.pdf> [retrieved on 20201113]  
• [X] CATT: "Detailed Signaling Flow for D2D Discovery", vol. RAN WG2, no. Dresden, Germany; 20140818 - 20140822, 17 August 2014 (2014-08-17), XP050794410, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/Meetings\_3GPP\_SYNC/RAN2/Docs/> [retrieved on 20140817]  
• [X] QUALCOMM INCORPORATED: "RRM Requirements for D2D", vol. RAN WG4, no. Dresden, Germany; 20140818 - 20140822, 12 August 2014 (2014-08-12), XP050825936, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/tsg\_ran/WG4\_Radio/TSGR4\_72/Docs/> [retrieved on 20140812]  
• [X] INTEL CORPORATION: "On D2D Resource Allocation Modes and In/Edge/Out of Coverage Definition", vol. RAN WG1, no. Seoul, Korea; 20140519 - 20140523, 10 May 2014 (2014-05-10), XP050814527, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/tsg\_ran/WG1\_RL1/TSGR1\_77/Docs/> [retrieved on 20140510]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2016045091 A1 20160331**; CN 106465199 A 20170222; CN 106465199 B 20191213; CN 111093175 A 20200501; CN 111093175 B 20231205; EP 3198933 A1 20170802; EP 3198933 A4 20171025; EP 3198933 B1 20201104; EP 3764692 A1 20210113; JP 2017532844 A 20171102; JP 6474010 B2 20190227; US 10257880 B2 20190409; US 10716163 B2 20200714; US 11368997 B2 20220621; US 11818786 B2 20231114; US 2017094709 A1 20170330; US 2019182886 A1 20190613; US 2020305219 A1 20200924; US 2022279618 A1 20220901; US 2024040658 A1 20240201

DOCDB simple family (application)  
**CN 2014087563 W 20140926**; CN 201480078890 A 20140926; CN 201911132156 A 20140926; EP 14902505 A 20140926; EP 20188652 A 20140926; JP 2017512722 A 20140926; US 201615377931 A 20161213; US 201916281987 A 20190221; US 202016896939 A 20200609; US 202217750094 A 20220520; US 202318485074 A 20231011